CONTENTS

page

ABRAJEVITCH, A. V. *See* ZIABREV, S. V.
ACOCELLA, V. *See* LANZAFAME, G.
ADATTE, T. *See* KELLER, G.
AITCHISON, J. C. *See* ZIABREV, S. V.
ALLEN, M. B. *See* BLANC, E. J.-P.
ARANGUREN, A., CUEVAS, J., TUBÍA, J. M., ROMÁN-BERDIEL, T., CASAS-SAINZ, A. & CASAS-PONSATI Granite laccolith emplacement in the Iberian arc: AMS and gravity study of the La Tojiza pluton (NW Spain) 435
ARGLES, T. W. *See* PLATT, J. P.
ARKWRIGHT, J. C. *See* RUTTER, E. H.
ARMSTRONG, R. A. *See* RAINAUD, C.
AVEDIK, F. *See* THINON, I.
AYALEW, D. & YIRGU, G. Crustal contribution to the genesis of Ethiopian plateau rhyolitic ignimbrites: basalt and rhyolite geochemical proviciality 44
BADENGZHU *See* ZIABREV, S. V.
BAHROUDI, A. & KOYI, H. A. Effect of spatial distribution on Hormuz salt on deformation style in the Zagros fold and thrust belt: an analogue modelling approach 719
BARAZANGI, M. *See* BREW, G.
BASEI, M. *See* BHATTACHARYA, S.
BEHRMANN, J. H. *See* KILIAN, R.
BENNIO, L. *See* MELLUSO, L.
BEST, J. *See* BREW, G.
BHATTACHARYA, S., KAR, R., TEIXEIRA, W. & BASEI, M. High-temperature crustal anatexis in a clockwise *P–T–t* path: isotopic evidence from a granulite–granitoid suite in the Eastern Ghats belt, India 39
BIGNOLD, S. M. & TRELOAR, P. J. Northward subduction of the Indian Plate beneath the Kohistan island arc, Pakistan Himalaya: new evidence from isotopic data 377
BILLI, A. *See* LANZAFAME, G.
BLANC, E. J.-P., ALLEN, M. B., INGER, S. & HASSANI, H. Structural styles in the Zagros Simple Folded Zone, Iran 401
BOYCE, A. J. *See* WAGNER, T.
BRAATHEN, A., *See* OSMUNDSEN, P. T.
BREW, G., BEST, J., BARAZANGI, M. & SAWAF, T. Tectonic evolution of the NE Palmyride mountain belt, Syria: the Bishri crustal block 677
BREWER, T. S., STOREY, C. D., PARRISH, R. R., TEMPERLEY, S. & WINDLEY, B. F. Grenvillian age decompression of eclogites in the Glenelg–Attadale Inlier, NW Scotland 565
BRISTOW, C. R. *See* EVANS, D. J.
BROTZU, P. *See* MELLUSO, L.
BUICK, I. S., WILLIAMS, I. S., GIBSON, R. L., CARTWRIGHT, I. & MILLER, J. A. Carbon and U–Pb evidence for a Palaeoproterozoic crustal component in the Central Zone of the Limpopo Belt, South Africa 601
BURGESS, J. M. *See* SCHAEFER, B. F.
CALVERT, A. T. *See* MORTIMER, N.
CARTER, A. *See* PLATT, J. P.
CARTER, A. *See* SCHLUP, M.
CARTWRIGHT, I. *See* BUICK, I. S.
CASAS-PONSATI, A. *See* ARANGUREN, A.
CASAS-SAINZ, A. *See* ARANGUREN, A.
CAWOOD, P. A., NEMCHIN, A. A., SMITH, M. & LOEWY, S. Source of the Dalradian Supergroup constrainted by U–Pb dating of detrital zircon and implications for the East Laurentian margin 231
CHAPRONIERE, G. C. H. *See* MORTIMER, N.
CHEN, B., JAHN, B.-M. & ZHAI, M. Sr–Nd isotopic characteristics of the Mesozoic magmatism in the Taihang–Yanshan orogen, North China craton, and implications for Archaean lithosphere thinning 963
CHEN, J. *See* SHAO, L.
CHENERY, C. *See* TRUEMAN, C.
CHEW, D. M., DALY, J. S., PAGE, L. M. & KENNEDY, M. J. Grampian orogenesis and the development of blueschist-facies metamorphism in western Ireland 911
CLARK, P. U. *See* MCCABE, A. M.

COLLINSON, M. E. *See* SCOTT, A. C.
COSCA, M. *See* SCHLUP, M.
CRAWFORD, A. J. *See* DIREEN, N. G.
CROWE, W. *See* HARROWFIELD, M.
CUEVAS, J. *See* ARANGUREN, A.
CUNNEEN, J. *See* HARROWFIELD, M.
CUNNINGHAM, D., OWEN, L. A., SNEE, L. W. & LI JILIANG Structural framework of a major intracontinental orogenic termination zone: the extreme easternmost Tien Shan, China 575
CURTIS, M. L. & STOREY, B. C. Early Palaeozoic near-surface deformation in the Neptune Range, Antarctica: implications for the Ross and Gondwanian orogenies 629
DAI, S. *See* SHAO, L.
DALY, J. S. *See* CHEW, D. M.
DAVID, K. *See* PÁLFY, J.
DAVIS. A. M. *See* ZIABREV, S. V.
DAWSON, G. C., KRAPE, B., FLETCHER, I. R., MCNAUGHTON, N. J., RASMUSSEN, B. 1.2 Ga thermal metamorphism in the Albany-Fraser Orogen of Western Australia: consequence of collision or regional heating by dyke swarms? 29
DE LA CRUZ, J. *See* KELLER, G.
DE LEON, C. *See* KELLER, G.
DEWEY, J. F. & STRACHAN, R. A. Changing Silurian–Devonian relative plate motion in the Caledonides: sinistral transpression to sinistral transtension 219
DI BUCCI, D. & MAZZOLI, S. The October–November 2002 Molise seismic sequence (southern Italy): an expression of Adria intraplate deformation 503
DINGLE, R. V. Some palaeontological implications of putative, long-term, gene reactivation 815
DIREEN, N. G. & CRAWFORD, A. J. Fossil seaward-dipping reflector sequences preserved in southeastern Australia: a 600 Ma volcanic passive margin in eastern Gondwanaland 985
DIRKS, P. H. G. M. *See* HOFMANN, A.
DROOP, G. T. R. *See* JOHNSON, T. E.
DROOP, G. T. R. *See* TREAGUS, S. H.
DUNKL, I. *See* KÁZMÉR, M.
DURANTI, D. *See* JONK, R.
EBERTH, D. A. *See* TRUEMAN, C.
EDEL, J. B., SCHULMANN, K. & HOLUB, F. V. Anticlockwise and clockwise rotations of the Eastern Variscides accommodated by dextral lithospheric wrenching: palaeomagnetic and structural evidence 209
Editorial 1
EIDE, E. *See* OSMUNDSEN, P. T.
EVANS, D. J., HOPSON, P. M., KIRBY, G. A. & BRISTOW, C. R. The development and seismic expression of synsedimentary features with the Chalk of southern England 797
EVANS, J. A. *See* MILLWARD, D.
EVANS, J. A. *See* MONTGOMERY, J.
EVANS, J. A. *See* TANNER, P. W. G.
FALCON-LANG, H. J. Response of Late Carboniferous tropical vegetation to transgressive–regressive rhythms at Joggins, Nova Scotia 643
FALLICK, A. E. *See* JONK, R.
FALLICK, A. E. *See* MELEZHIK, V. A.
FANNING, C. M. *See* RAPELA, C. W.
FELDMANN, R. M., SCHWEITZER, C. F. & MARENSSI, S. A. Decapod crustaceans from the Eocene La Meseta Formation, Seymour Island, Antarctica: a model for preservation of decapods 151
FIDALGO-GONZÁLEZ, L. *See* THINON, I.
FLETCHER, I. R. *See* DAWSON, G. C.
FRANCIOSI, L. *See* MELLUSO, L.
FRIEND, C. R. L. *See* KINNY, P.D.
FRIEND, C. R. L. *See* KINNY, P. D.
FRIEND, C. R. L., STRACHAN, R. A., KINNY, P. D. & WATT, G. R. Provenance of the Moine Supergroup of NW Scotland: evidence from geochronology of detrital and inherited zircons from (meta)sedimentary rocks, granites and migmatites 247

FRISCH, W. *See* KÁZMÉR, M.
FUNICIELLO, R. *See* LANZAFAME, G.
GAYER, R. A. *See* SHAO, L.
GERNIGON, L., RINGENBACH, J. C., PLANKE, S., LE GALL, B. & JONQUET-KOLSTØ, H. Extension, crustal structure and magmatism at the Outer Vøring Basin, Nowegian margin 197
GIBBARD, P. L. & LEWIN, J. The history of the major rivers of southern Britain during the Tertiary 829
GIBSON, R. L. *See* BUICK, I. S.
GIORDANO, G. *See* LANZAFAME, G.
GRASSO, M. *See* SPERANZA, F.
GRECCO, L. E. *See* RAPELA, C. W.
HARROWFIELD, M., CUNNEEN, J., KEEP, M. & CROWE, W. Early-stage orogenesis in the Timor Sea region, NW Australia 911
HART, M. B., HYLTON, M. D., OXFORD, M. J., PRICE, G .D., HUDSON, W. & SMART, C. W. The search for the origin of the planktic Foraminfera 341
HARTING, M. *See* KELLER, G.
HARTLEY, A. J. Andean uplift and climate change 7
HASSANI, H. *See* BLANC, E. J.-P.
HEGNER, E. *See* KRÖNER, A.
HERZER, R. H., *See* MORTIMER, N.
HIRN, A. *See* THINON, I.
HOFMANN, A., DIRKS, P. H. G. M., JELSMA, H. A. & MATURA, N. A tectonic origin for ironstone horizons in the Zimbabwe craton and their significance for greenstone belt geology 83
HOLLAND, B. *See* KELLER, G.
HOLLOWAY, R. F. *See* RUTTER, E. H.
HOLNESS, M. B. & ISHERWOOD, C. E. The aureole of the Rum Tertiary Igneous Complex, Inner Hebrides, Scotland 15
HOLUB, F. V. *See* EDEL, J. B.
HOPSON, P. M. *See* EVANS, D. J.
HOSSEINI-BARZI, M. & TALBOT, C. J. A tectonic pulse in the Makran accretionary prism recorded in Iranian coastal sediments 903
HUDSON, N. F. C. *See* JOHNSON, T. E.
HUDSON, W. *See* HART, M. B.
HUNTER, M. A. & LOMAS, S. A. Reconstructing the Siluro-Devonian coastline of Gondwana: insights from the sedimentology of the Port Stephens Formation, Falkland Islands 459
HURST, A. *See* JONK, R.
HYLTON, M. D. *See* HART, M. B.
INGER, S. *See* BLANC, E. J.-P.
ISHERWOOD, C. E. *See* HOLNESS, M. B.
JACQUES, J. M. A tectonostratigraphic synthesis of the Sub-Andean basins: implications for the geotectonic segmentation of the Andean Belt 687
JACQUES, J. M. A tectonostratigraphic synthesis of the Sub-Andean basins: inferences on the position of South American intraplate accommodates zones and their control on South Atlantic opening 703
JAHN, B.-M. *See* CHEN, B.
JELSMA, H. A. *See* HOFMANN, A.
JOHNSON, T. E., HUDSON, N. F. C. & DROOP, G. T. R. Evidence for a genetic granite–migmatite link in the Dalradian of NE Scotland 447
JONES, A. P. & PICKERING, K. T. Evidence for aqueous fluid–sediment transport and erosional processes on Venus 319
JONK, R., DURANTI, D., PARNELL, J., HURST, A. & FALLICK, A. E. The structural and diagentic evolution of injected sandstone: examples from the Kimmeridgian of NE Scotland 881
JONQUET-KOLSTØ, H. *See* GERNIGON, L.
KAR, R. *See* BHATTACHARYA, S.
KÁZMÉR, M., DUNKL, I., FRISCH, W., KUHLEMANN, J. & OZSVÁRT, P. The Palaeogene forearc basin of the Eastern Alps and West Carpathians: subduction erosion and basin evolution 413
KEEP, M. *See* HARROWFIELD, M.
KELLER, G., STINNESBECK, W., ADATTE, T., HOLLAND, B., STÜBEN, D., HARTING, M., DE LEON, C. & DE LA CRUZ, J. Spherule deposits in Cretaceous–Tertiary boundary sediments in Belize and Guatamala 783
KELLEY, S. P. *See* PLATT, J. P.

KENNEDY, M. J. *See* CHEW, D. M.
KHAN, M. A. *See* TRELOAR, P. J.
KILIAN, R. & BEHRMANN, J. H. Geochemical constraints on the sources of Southern Chile Trench sediments and their recycling in arc magmas of the Southern Andes 57
KINNY, P. D. *See* FRIEND, C. R. L.
KINNY, P. D., STRACHAN, R. A., KOCKS, H. & FRIEND, C. R. L. U–Pb geochronology of late Neoproterozoic augen granites in the Moine Supergroup, NW Scotland: dating of rift-related, felsic magmatism during supercontinent break-up? 925
KINNY, P.D., STRACHAN, R. A., FRIEND, C. R. L., KOCKS, H., ROGERS, G. & PATERSON, B. U–Pb geochronology of deformed metagranites in central Sutherland, Scotland: evidence for widespread late Silurian metamorphism and ductile deformation of the Moine Supergoup during the Caledonian orogeny 259
KIRBY, G. A. *See* EVANS, D. J.
KLEINSPEHN, K. L. *See* TEN VEEN, J. H.
KOCKS, H. *See* KINNY, P. D.
KOCKS, H. *See* KINNY, P.D.
KOYI, H. A. *See* BAHROUDI, A.
KRAPE, B. *See* DAWSON, G. C.
KRÖNER, A., MUHONGO, S., HEGNER, E. & WINGATE, M. Single-zircon geochronology and Nd isotopic systematics of Proterozoic high-grade rocks from the Mozambique belt of southern Tanzania (Masasi area): implications for Gondwana assembly 745
KUHLEMANN, J. *See* KÁZMÉR, M.
LANZAFAME, G., NERI, M., ACOCELLA, V., BILLI, A., FUNICIELLO, R. & GIORDANO, G. Structural features of the July–August 2001 Mount Etna eruption: evidence for a complex magmatic system 531
LARSEN, M. *See* UKSTINS PEATE, I.
LAW, R. D. *See* SEARLE, M. P.
LAYNE, G. D. *See* STIX, J.
LE GALL, B. *See* GERNIGON, L.
LESHER, C. E. *See* UKSTINS PEATE, I.
LEWIN, J. & GIBBARD, P. L.
LI JILIANG *See* CUNNINGHAM, D.
LOEWY, S. *See* CAWOOD, P. A.
LOMAS, S. A.*See* HUNTER, M. A.
LONERGAN, L. *See* PLATT, J. P.
LUO, H. *See* ZIABREV, S. V.
MANISCALCO, R. *See* SPERANZA, F.
MANVILLE, V. & WILSON, C. J. N. Interactions between volcanism, rifting and subsidence: implications of intracaldera palaeoshorelines at Taupo volcano, New Zealand 3
MARENSSI, S. A. *See* FELDMANN, R. M.
MARTIN, U. *See* NÉMETH, K.
MASSARI, F. *See* ZECCHIN, M.
MASTER, S. *See* RAINAUD, C.
MATIAS, L. *See* THINON, I.
MATURA, N. *See* HOFMANN, A.
MAZZOLI, S. *See* DI BUCCI, D.
MCCABE, A. M. & CLARK, P. U. Deglacial chronology from County Donegal, Ireland: implications for deglaciation of the British–Irish Ice Sheet 847
MCILROY, D. WORDEN, R. H. & NEEDHAM, S. J. Faeces, clay minerals and reservoir potential 489
MCKENZIE, D. *See* TILEY, N.
MCNAUGHTON, N. J. *See* DAWSON, G. C.
MELEZHIK, V. A., FALLICK, A. E., SMIRNOV, Y. P. & YAKOVLEV, Y. N. Fractionation of carbon and oxygen isotopes in ^{13}C-rich dolostones in the transition from medium-grade to high-grade greenschist facies: a case study from the Kola Superdeep Drillhole 71
MELLERE, D. *See* ZECCHIN, M.
MELLUSO, L., MORRA, V., BROTZU, P., FRANCIOSI, L., PETTERUTI LIEBERKNECHT, A. M. & BENNIO, L. Geochemical provinciality in the Cretaceous basaltic magmatism of northern Madagascar: mantle source implications 477

MEYER, G. B. *See* OSMUNDSEN, P. T.
MILIA, A., TORRENTE, M. M. & ZUPPETTA, A. Offshore debris avalanches at Somma–Vesuvius volcano (Italy): implications for volcanic hazard evaluation 309
MILLER, J. A. *See* BUICK, I. S.
MILLWARD, D. & EVANS, J. A. U–Pb chronology and duration of late Ordovician magmatism in the English Lake District 773
MONTGOMERY, J., EVANS, J. A. & NEIGHBOUR, R. Sr isotope evidence for population movement within the Hebridean Norse community of NW Scotland 649
MORRA, V. *See* MELLUSO, L.
MORTIMER, N., HERZER, R. H., WALKER, N. V., CALVERT, A. T., SEWARD, D. & CHAPRONIERE, G. C. H. Cavalli Seamount, Northland Plateau, SW Pacific Ocean: a Miocene metamorphic core complex? 971
MUHONGO, S. *See* KRÖNER, A.
NEEDHAM, S. J. *See* MCILROY, D.
NEIGHBOUR, R. *See* MONTGOMERY, J.
NEMCHIN, A. A. *See* CAWOOD, P. A.
NÉMETH, K., WHITE, J. D. L., REAY, A. & MARTIN, U. Compositional variation during monogenetic volcano growth and its implications for magma supply to continental volcanic fields 523
NERI, M. *See* LANZAFAME, G.
NORDGULEN, Ø. *See* OSMUNDSEN, P. T.
O'BRIEN, P. J. *See* TRELOAR, P. J.
ÖNEN, A. P. Neotethyan ophiolitic rocks of the Anatolides of NW Turkey and comparison with Tauride ophiolites 947
OSMUNDSEN, P. T., BRAATHEN, A., NORDGULEN, Ø., ROBERTS, D., MEYER, G. B. & EIDE, E. The Devonian Nesna Shear Zone, North-Central Norwegian Caledonides 137
OWEN, L. A. *See* CUNNINGHAM, D.
OXFORD, M. J. *See* HART, M. B.
OZSVÁRT, P. *See* KÁZMÉR, M.
PAGE, L. M. *See* CHEW, D. M.
PÁLFY, J., PARRISH, R. R., DAVID, K. & VÖRÖS, A. Mid-Triassic integrated U–Pb geochronology and ammonoid biochronology from the Balaton Highland (Hungary) 271
PANKHURST, R. J. *See* RAPELA, C. W.
PARNELL, J. *See* JONK, R.
PARRISH, R. R. *See* BREWER, T. S.
PARRISH, R. R. *See* PÁLFY, J.
PARRISH, R. R. *See* SEARLE, M. P.
PARRISH, R. R. *See* TRELOAR, P. J.
PATERSON, B. *See* KINNY, P.D.
PEDERSEN, R. B. *See* SKÅR, Ø.
PETTERUTI LIEBERKNECHT, A. M. *See* MELLUSO, L.
PICKERING, K. T. *See* JONES, A. P.
PICKERING, K. T. *See* SMITH, A. G.
PLANKE, S. *See* GERNIGON, L.
PLATT, J. P., ARGLES, T. W., CARTER, A., KELLEY, S. P., WHITEHOUSE, M. J. & LONERGAN, L. Exhumation of the Ronda Peridotite and its crustal envelope: constraints from thermal modelling of a *P–T–*time array 655
PRICE, G .D. *See* HART, M. B.
PROSSER, G. *See* ZECCHIN, M.
PROSSER, G. *See* TAVARNELLI, E.
RAINAUD, C., MASTER, S., ARMSTRONG, R. A. & ROBB, L. J. A cryptic Mesoarchaean terrane in the basement to the Cental African Copperbelt 11
RAPELA, C. W., PANKHURST, R. J., FANNING, C. M. & GRECCO, L. E. Basement evolution of the Sierra de la Ventana Fold Belt: new evidence for Cambrian continental rifting along the southern margin of Gondwana 613
RASMUSSEN, B. *See* DAWSON, G. C.
REAY, A. *See* NÉMETH, K.
RÉHAULT, J.P. *See* THINON, I.
RINGENBACH, J. C. *See* GERNIGON, L.
ROBB, L. J. *See* RAINAUD, C.
ROBERTS, D. *See* OSMUNDSEN, P. T.

ROGERS, G. *See* KINNY, P.D.
ROMÁN-BERDIEL, T. *See* ARANGUREN, A.
RUTTER, E. H., ARKWRIGHT, J. C., HOLLOWAY, R. F. & WAGHORN, D. Strains and displacements in the Mam Tor Landslip, Derbyshire, England 735
SAWAF, T. *See* BREW, G.
SCHAEFER, B. F. & BURGESS, J. M. Re–Os isotopic age constraints on deposition in the Neoproterozoic Amadeus Basin: implications for the 'Snowball Earth' 825
SCHLUP, M., CARTER, A., COSCA, M. & STECK, A. Exhumation history of eastern Ladakh revealed by $^{40}Ar/^{39}Ar$ and fission-track ages: the Indus River–Tso Morari transect, NW Himalaya 385
SCHULMANN, K. *See* EDEL, J. B.
SCHWEITZER, C. F. *See* FELDMANN, R. M.
SCOTT, A. C. & COLLINSON, M. E. Non-destructive multiple approaches to interpret the preservation of plant fossils: implications for calcium-rich permineralizations 857
SEARLE, M. P., SIMPSON, R. L., LAW, R. D., PARRISH, R. R. & WATERS, D. J. The structural geometry, metamorphic and magmatic evolution of the Everest massif, High Himalaya of Nepal–South Tibet 344
SEWARD, D. *See* MORTIMER, N.
SHAO, L., ZHANG, P., GAYER, R. A., CHEN, J. & DAI, S. Coal in a carbonate sequence stratigraphic framework: the Upper Permian Heshan Formation in central Guangxi, southern China 285
SIMPSON, R. L. *See* SEARLE, M. P.
SKÅR, Ø. & PEDERSEN, R. B. Relations between granitoid magmatism and migmatization: U–Pb geochronological evidence from the Western Gneiss Complex, Norway 935
SMART, C. W. *See* HART, M. B.
SMIRNOV, Y. P. *See* MELEZHIK, V. A.
SMITH, A. G. & PICKERING, K. T. Oceanic gateways as a critical factor to initiate icehouse Earth 337
SMITH, M. *See* CAWOOD, P. A.
SNEE, L. W. *See* CUNNINGHAM, D.
Society Awards 2003 497
SPERANZA, F., MANISCALCO, R. & GRASSO, M. Pattern of orogenic rotations in central–eastern Sicily: implications for the timing of spreading of the Tyrrhenian Sea 183
SPIRO, B. *See* TRUEMAN, C.
STECK, A. *See* SCHLUP, M.
STINNESBECK, W. *See* KELLER, G.
STIX, J., LAYNE, G. D. & WILLIAMS, S. N. Mechanisms of degassing at Nevado del Ruiz volcano, Colombia 507
STOREY, B. C. *See* CURTIS, M. L.
Storey, C. D. *See* BREWER, T. S.
STRACHAN, R. A. *See* DEWEY, J. F.
STRACHAN, R. A. *See* FRIEND, C. R. L.
STRACHAN, R. A. *See* KINNY, P. D.
STRACHAN, R. A. *See* KINNY, P.D.
STÜBEN, D. *See* KELLER, G.
TALBOT, C. J. *See* HOSSEINI-BARZI, M.
TANNER, P. W. G. & EVANS, J. A. Late Precambrian U–Pb titanite age for peak regional metamorphism and deformation (Knoydartian orogeny) in the western Moine, Scotland 555
TAVARNELLI, E. & PROSSER, G. The complete Appenines orogenic cycle preserved in a transient single outcrop near San Fele, Lucania, Southern Italy 429
TEIXEIRA, W. *See* BHATTACHARYA, S.
TEMPERLEY, S. *See* BREWER, T. S.
TEN VEEN, J. H. & KLEINSPEHN, K. L. Incipient continental collision and plate-boundary curvature: Late Pliocene–Holocene transtensional Hellenic forearc, Crete, Greece 161
THINON, I., MATIAS, L., RÉHAULT, J.P., HIRN, A., FIDALGO-GONZÁLEZ, L. & AVEDIK, F. Deep structure of the Armorican Basin (Bay of Biscay): a review of Norgasis reflection and refraction seismic data 99
TILEY, N., MCKENZIE, D. & WHITE, N. The elastic thickness of the British Isles 499
TORRENTE, M. M. *See* MILIA, A.
TREAGUS, J. E. *See* TREAGUS, S. H.
TREAGUS, S. H., TREAGUS, J. E. & DROOP, G. T. R. Superposed deformations and their hybrid effects: the Rhoscolyn Anticline unravelled 117

TRELOAR, P. J. *See* BIGNOLD, S. M.
TRELOAR, P. J., O'BRIEN, P. J., PARRISH, R. R. & KHAN, M. A. Exhumation of early Tertiary, coesite-bearing eclogites from the Pakistan Himalaya 367
TRUEMAN, C., CHENERY, C., EBERTH, D. A. & SPIRO, B. Diagenetic effects on the oxygen isotope composition of bones of dinosaurs and other vertebrates recovered from terrestrial and marine sediments 895
TUBÍA, J. M. *See* ARANGUREN, A.
UKSTINS PEATE, I., LARSEN, M. & LESHER, C. E. The transition from sedimentation to flood volcanism in the Kangerlussuaq Basin, East Greenland: basaltic pyroclastic volcanism during initial Palaeogene continental break-up 759
VÖRÖS, A. *See* PÁLFY, J.
WAGHORN, D. *See* RUTTER, E. H.
WAGNER, T. & BOYCE, A. J. Sulphur isotope geochemistry of black shale-hosted antimony mineralization, Arnsberg, northern Rhenish Massif, Germany: implications for late-stage fluid flow during the Variscan orogeny 299
WALKER, N. V. *See* MORTIMER, N.
WALLACE, M. W. *See* WILLIAMS, G. E.
WATERS, D. J. *See* SEARLE, M. P.
WATT, G. R. *See* FRIEND, C. R. L.
WHITE, J. D. L. *See* NÉMETH, K.
WHITE, N. *See* TILEY, N.
WHITEHOUSE, M. J. *See* PLATT, J. P.
WILLIAMS, G. E. & WALLACE, M. W. The Acraman asteroid impact, South Australia: magnitude and implications for the late Vendian global environment 545
WILLIAMS, I. S. *See* BUICK, I. S.
WILLIAMS, S. N. *See* STIX, J.
WILSON, C. J. N. *See* MANVILLE, V
WINDLEY, B. F. *See* BREWER, T. S.
WINGATE, M. *See* KRÖNER, A.
WORDEN, R. H. *See* McILROY, D.
YAKOVLEV, Y. N. *See* MELEZHIK, V. A.
YIRGU, G. *See* AYALEW, D.
ZECCHIN, M., MASSARI, F., MELLERE, D. & PROSSER, G. Architectural styes of prograding wedges in a tectonically active setting, Crotone Basin, Southern Italy 863
ZHAI, M. *See* CHEN, B.
ZHANG, P. *See* SHAO, L.
ZIABREV, S. V., AITCHISON, J. C., ABRAJEVITCH, A. V., BADENGZHU, DAVIS, A. M. & LUO, H. Precise radiolarian age constraints on the timing of ophiolite generation and sedimentation in the Dazhuqu terrane, Yarlang–Tsangpo suture zone, Tibet 591
ZUPPETTA, A. *See* MILIA, A.

Discussions on previously published papers

On dating the Late Precambrian volcanicity of England and Wales [HORÁK, J.; reply by COMPSTON, W., WRIGHT, A.E. & TOGHILL, P.] 329
On incipient continental collision and plate-boundary curvature: Late Pliocene–Holocene transtensional Hellenic forearc, Crete, Greece [RING, U. & BRACHERT, T. C.; reply by TEN VEEN, J. H. & KLEINSPEHN, K. L.] 819
On mechanisms and controls on the formation of sand intrusions [JAMES, D. M. D.; reply by JOLLY, R. J. H. & LONERGAN, L.] 495
On SHRIMP U–Pb zircon dating of the exhumation of the Lizard Peridotite and its emplacement over crustal rocks: constraints for the tectonic models [CLARK, A. H. & SANDEMAN, H. A. I.; reply by NUTMAN, A. P., GREEN, D. H. & COOK, A.] 331

ERRATA

160, p. 117, Treagus *et al.* The catch line at the top of the page should read:
Journal of the Geological Society, London, Vol. **160**, 2003, pp. 117–136.